

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number  
**WO 2005/019481 A2**

- (51) International Patent Classification<sup>7</sup>: **C21C**
- (21) International Application Number:  
PCT/US2004/026902
- (22) International Filing Date: 18 August 2004 (18.08.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
60/495,930 18 August 2003 (18.08.2003) US
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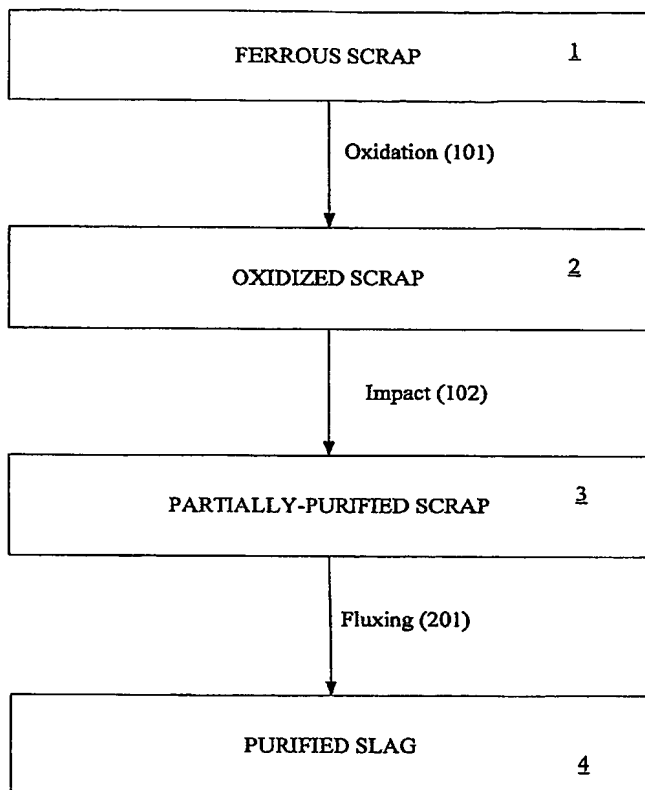
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: **METHODS AND SYSTEMS FOR REMOVING COPPER FROM FERROUS SCRAP**



(57) Abstract: Methods and systems for removing copper from ferrous scrap are described. Some amounts of copper in ferrous scrap are removed by oxidation and subsequent mechanical impact of the oxidized scrap. Further removal of copper from the solid scrap can be achieved by fluxing the copper oxide below the melting point of ferrous scrap using  $\text{CaO-SiO}_2\text{-B}_2\text{O}_3$ - and  $\text{Na}_2\text{O-SiO}_2\text{-B}_2\text{O}_3$ -based slags. Using the invention, copper can be removed from ferrous scrap in a natural, cost-effective, and environmental-friendly manner.

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GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *without international search report and to be republished upon receipt of that report*

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